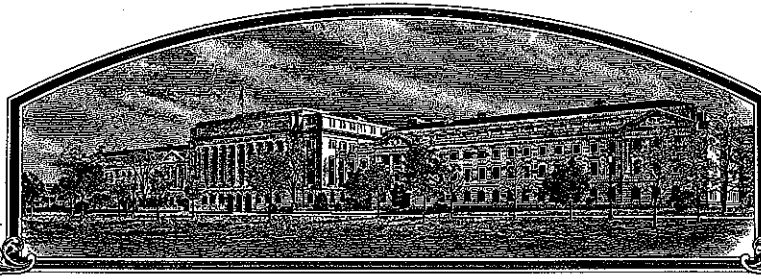


No.

200700036



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Seminis Vegetable Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, GARDEN

'Veronica'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of July, in the year two thousand and eight.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

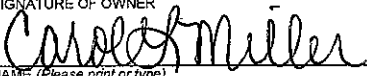
Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Seminis Vegetable Seeds, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME EX 15330723		3. VARIETY NAME Veronica	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 2700 Camino del Sol Oxnard, CA 93030-7967		5. TELEPHONE (include area code) (805) 647-1572		FOR OFFICIAL USE ONLY PVPO NUMBER 200700035 FILING DATE NOVEMBER 21, 2006	
		6. FAX (include area code) (805) 918-2545			
7. IF THE OWNER NAMED IS NOT A "PERSON". GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION California		9. DATE OF INCORPORATION 4 June 1962	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)				FILING AND EXAMINATION FEES: \$ 4,382.00 DATE 11/21/06 CERTIFICATION FEE: \$ 768.00 DATE 6/25/08	
11. TELEPHONE (Include area code) (530) 669-6274		12. FAX (Include area code) (530) 669-6112		13. E-MAIL carol.l.miller@seminis.com	
14. CROP KIND (Common Name) Garden Bean		16. FAMILY NAME (Botanical) Leguminosae		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP Phaseolus vulgaris		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(e) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23)	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Exhibit F. Declaration Regarding Deposit g. <input type="checkbox"/> Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$4,382), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)			
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER 		SIGNATURE OF OWNER	
NAME (Please print or type) Carol L. Miller		NAME (Please print or type)	
CAPACITY OR TITLE PVP Specialist	DATE 20-Nov-06	CAPACITY OR TITLE	DATE

(See reverse for instructions and information collection burden statement)

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). **NEW:** With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety *per se*, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. **Retain one copy for your files.** All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office
Telephone: (301) 504-5518 **FAX:** (301) 504-5291
General E-mail: PVPOmail@usda.gov
Homepage: <http://www.ams.usda.gov/science/pvpo/PVPindex.htm>

200700955

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870.
<http://www.ams.usda.gov/lsg/seed.htm>.

ITEM

- 19a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication;
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

US: first date of sale 01-Dec-05

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

EXHIBIT A

20070063 6

Origin and Breeding History of Garden Bean, Veromnica (EX 15330723)

Veronica was developed by backcross and pedigree breeding selection methods at Seminis Vegetable Seed's Breeding Stations in Filer / Twin Falls, Idaho; Melipilla, Chile; and DeForest, Wisconsin under the direction of George Kotch and Ken Kmiecik. **Veronica** originates from a hand pollinated cross between the line B378 which later was named Festina (US PVP # 9900071) and complex cross in the Asgrow accession collection designated B394rr.

Parent A: B378 (**Festina** - US PVP # 9900071) was developed and is marketed by Seminis Vegetable Seeds. **Festina** is a four sieve Garden Bean with a deep green color. Its use has been primarily in the fresh market segment of the United States and Italy. It is also well suited to use as a cut bean in both canned and frozen product. However, Festina is being phase out due to excessive curving under certain growing conditions.

Parent B: B394rr was never named or marketed. It is a fresh market breeding line light green in color developed for rust resistance by the Asgrow Seed Company which was later acquired by Seminis Vegetable Seeds. The parents included: Hialeah /// Strike // Atlantic / Rust Resistant # 3.

Breeding / Selection / Evaluation Scheme:

Year	Season	Gen	Location	Description
1997	Fall	A / B	Greenhouse Filer, ID	Crosses were made on Line: B378 grown under stake number GH97.549 and Line: B394 grown under stake number GH97.559. The F1's were GH07.549 x 559
1998	Spring	A // A / B	Greenhouse Filer, ID	F1 plants designated as GH07.549 x 559 under stake number GRB 376 are screened for rust resistance. Resistant F1 plants used as a pollen source and crossed with B378 planted under stake number GRB 292.
1998	Summer	Bc1S0	Field Filer, ID	(50) Bc1 seeds designated GBR 292 x 376 are planted under stake number R98.657-1. 48 Bc1S1 plants are harvested as single plants and tested for Rust Resistance
1998	Fall	Bc1S1	Melipilla, Chile	Bc1 seeds are planted in Chile under stake number CH99.675. 3 single plants are selected for color and horticultural type.
1999 2000	Fall Winter	Bc1S2	Field Felda, FL	Bc1S2 seed of single plant selections are planted under stakes FM00.711, FM00.712, and FM00.713. Four single plant selections are made and designated FM00.712.01 - FM00.712.04
2000	Spring (March)	Bc2S3	Greenhouse Filer, ID	Single plant selections from Florida are planted in the greenhouse under Stake numbers: GH00.5375 to GH00.5378 2 plants per pot and then harvested and bagged as single plants.
2000	Summer	Bc2S4	Fields: Filer, ID	Single plants from GH00.5375 to GH00.5378 are grown out a unique rows. The line that becomes Veronica traces back to a bulk of plot R00.35625 from GH00.5377.01
2001	Summer	Bc2S4+1	Fields; Filer, ID DeForest, WI	Short row evaluation for horticultural type and adaptation. Line R00.35625 was noted for Early maturity and good color.

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Year	Season	Gen	Location	Description
2001	Fall	Bc2S4+1	Melipilla, Chile	150 seeds planted and 100 single plant Gen 0's harvested
2002	Summer	Bc2S4+2	Fields: Filer, ID	Generational increase competed and evaluated for uniformity and type. Designated as Stock number RWR 2296.
2003	Summer	Gen 1	Field: Filer, Idaho	Generation 1 produced plot number RWV3228.

The Seminis foundation seed program in Idaho utilizes a progeny to row design. Observations made during 6 generations of multiplication and increases in Idaho indicated that Veronica was uniform and stable for plant habit, maturity, pod type, and other horticultural and agronomic characteristics. As is true with other garden beans, a very small percentage of mutations or variants for flat pods or string may occur during the course of repeated replication. Veronica was within the commercially acceptable limits of .1% (for flat pods) and .01% (for string) for this type of mutation / variant. No other variants or off-types are known or expected to occur.

EXHIBIT B

200700036

Statement of Distinctness for Garden Bean, Veronica (EX 15330723)

Veronica is a green snap bean developed by pedigree selection for use in the fresh market segment of the United States. To our knowledge, the variety being marketed that most closely resembles *Veronica* is *Bronco* (US PVP # 8600095) developed and marketed by Seminis Vegetable Seeds. *Bronco* is considered main season cultivar maturing in approximately 55 DAP. One objective measure of maturity in comparing varieties is seed development at a given unit of time or heat units. The percent seed or total length of 10 seeds sampled as one seed from each of 10 pods in largest sieve size are a common measures of seed development (refer to 'Discussion' section). The greater length of 10 seeds or higher percentage of seed developed reflects an earlier maturity.

The comparative characteristic that most readily distinguishes *Veronica* from *Bronco* includes, but may not be limited to, the rate of seed development. *Veronica* has a faster rate of seed development as measured, but 10 seed lengths compared to *Bronco* (Table 1).

Statistical analysis of the data as a Paired T Test rejected the null hypothesis that the difference in 10 seed length between *Bronco* and *Veronica* as equal to Zero at the P level of .0061 confirming that the seed development in *Veronica* was not the same as *Bronco*.

Table 1. Comparison physiological development (maturity) comparing the length of 10 seeds in paired samples of *Veronica* and *Bronco* at DeForest, WI. 2004-2006

Year	Harvest	DAP	Line	
			Bronco 10seed Length (mm)	Veronica 10seed Length (mm)
2004	1	57	106	117
	2	60	111	131
2005	1	52	81	86
	2	55	80	90
2006	1	54	84	103
	2	56	86	92

Table 2. Statistical analysis of 10 seed length development data comparing *Bronco* and *Veronica*. DeForest, WI 2004-2006.

SATISTIX 7.0

PAIRED T TEST FOR BRONCO - VERONICA

NULL HYPOTHESIS: DIFFERENCE = 0

ALTERNATIVE HYP: DIFFERENCE > 0

MEAN -11.833

STD ERROR 2.6002

LO 95% CI -18.517

UP 95% CI -5.1493

T -4.55

DF 5

P 0.0061

CASES INCLUDED 6 MISSING CASES 0

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Discussion:

The determination of when to harvest snap beans (maturity) has been based on factors including: sieve size, fiber development, and seed development - as percent seed and /or seed size measured as seed length (3, 4, 5). The inverse relationship of maturity to quality has long been recognized and percent seed along with fiber is a recognized as a component quality in the USDA grade requirements (7). Though not used in the USDA grading seed development as measured by length has long been known to reflect quality and maturity of raw product (3, 4, 8). Mullins and Straw used a 10 seed length to determine optimum quality of a flat romano bean (6). The use of a 10 seed length as a measure of maturity is further reflected in the trial and evaluation data done by varied institutions that include a 10 seed length as a measure of maturity (1, 2, 9).

1. CTAC, Agri-Food Canada, Mc Gill Univ. 2005. Trials of vegetable for processing: peas and beans: 21.
2. Ballerstein, J. and S. Reiners. 2006. New York State 2006 processor snap bean cultivar trial report.
3. Guyer, R. B., and A. Kramer. 1950. Factors affecting yield and quality measurements of raw and canned green and wax beans-a preliminary report. Proc. Amer. Soc. Hort.Sci. 56:303-314.
4. Guyer, R. B., and A. Kramer. 1952. Studies of factors affecting the quality of green and wax beans. Md. Agr. Expt. Sta. Bul. No. 68.
5. Gould, W. A. 1951. Quality evaluation of fresh, frozen, and canned snap beans. Ohio Agr. Exp. Sta. Res. Bul. 701.
6. Mullins, C. A. and R. A. Straw. 1978. Maturity indices for *Roma II* bush beans. BIC. 167-168.
7. Robibnson, W. B., D. E. Wislon, J. C. Moyer, J. D. Atkin, and D. B. Hand. 1964. Quality versus yield of snap beans for processing. J. Amer. Soc. Hort. Sci. 84:339-347.
8. Silbernagel, M. J. and S. R. Drake. 1978. Seed index, an estimate of snap bean quality. J. Amer. Soc. Hort. Sci. 103:257-260.
9. Stanley, R. 1986. Green bean varieties for processing. The Campden Food Preservation Research Association, Chipping Campden, England. Tech. Memorandum No. 422: 2-3.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved OMB NO 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Garden Bean (*Phaseolus vulgaris* L.)

NAME OF APPLICANT (S) Seminis Vegetable Seeds	TEMPORARY OR EXPERIMENTAL DESIGNATION EX 15330723	VARIETY NAME VERONICA
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country) 2700 Camino del Sol Oxnard, CA 93030		PVPO NUMBER 200700035

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g., 0 9 9 or 0 9) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties centered in the same trial. Measured data should be for SPACED PLANTS. Ranges should also be given. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: RHS
Please answer all questions for your variety; lack of response may delay progress of your application.

1. TYPE:

1 = Garden 2 = Flageolet 3 = Romano

2. MARKET MATURITY:

<input type="text" value="5"/> <input type="text" value="4"/> Days to Edible Pods	Comparison Varieties 1 = Tender crop 3 = Gold rush 5 = Gitana 7 = Bush Blue Lake 290 8 = Other (Specify Below)	2 = Kentucky Wonder
<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="3"/> <input type="text" value="6"/> Heat Units to Edible Pods		4 = Slenderette
<input type="text" value="0"/> <input type="text" value="3"/> Number of Days Earlier Than		6 = Provider
<input type="text" value="8"/> Same As		
<input type="text" value=""/> <input type="text" value=""/> Number of Days Later Than		<u>BRONCO</u>

3. PLANT:

<input type="text" value="0"/> <input type="text" value="5"/> cm Spacing Between Plants in a Row	Comparison Variety <input type="text" value="8"/> <input type="text" value=""/> <input type="text" value=""/>	<u>Use Comparison Varieties from Section 2</u>	
<input type="text" value="1"/> Habit 1 = Determinate 2 = Indeterminate, Erect Stem and Branches 3 = Indeterminate with Weak and Prostrate Stem and Branches 4 = Indeterminate Climbing Habit with Weak, Long, and Twisted Stem and Branches			
<input type="text" value="4"/> <input type="text" value="7"/> cm Height			
<input type="text" value="0"/> <input type="text" value="4"/> cm Shorter Than			
<input type="text" value=""/> <input type="text" value=""/> Same Height As			
<input type="text" value=""/> <input type="text" value=""/> cm Taller Than			

3. PLANT: (continued)

69

cm Spread

cm Narrower Than

Same Width As

19

cm Wider Than

8

Comparison Variety

Use Comparison Varieties from Section 2

3

Pod Position: 1 = Low 2 = High 3 = Scattered

3

Bush Form (Illustrated Below)



1 = Spherical Bush Form



2 = Stem Bush Form



3 = Wide Bush Form



4 = High Bush Form

5 = Other (Specify) _____

4. LEAVES:

2

Surface: 1 = Dull 2 = Glossy 3 = Indeterminate

2

Size: 1 = Small (Gitana) 2 = Medium 3 = Large (Tender Crop)

3

Color: 1 = Light Green (as Light or Lighter than Gold Rush)
2 = Medium Green
3 = Dark Green (as Dark or Darker than Bush Blue Lake 290)

5. ANTHOCYANIN PIGMENT:

(1 = Absent

2 = Present)

1

Flowers

1

Stems

1

Pods

1

Seeds

1

Leaves

1

Petioles

1

Peduncles

1

Nodes

6. FLOWER COLOR AND DAYS TO BLOOM:

1

Color of Standard

1

Color of Wings

1

Color of Keel

49

Days to 50% Bloom

Flower Color Choices

1 = White 2 = Cream

3 = Pink 4 = Lilac

5 = Purple 6 = Blue

7 = Other (Specify) _____

7. PODS (Edible Maturity):

3

Exterior Color:
(Fresh)

1 = Light Green (as Light or Lighter than Provider)

2 = Medium Green

3 = Dark Green (as Dark or Darker than Bush Blue Lake 290)

4 = Yellow (Gold Rush)

5 = Green-red Variegated (Horticultural)

6 = Other (Specify) _____

2

Processed Pods (Exterior Color):

1 = Light (Tender Crop)

2 = Dark (Bush Blue Lake 290)

1

Dry Pod Color:

1 = Buckskin (Sprite)

2 = Green, Persistent Chlorophyll (Hystyle)

7. PODS (continued):

3 Cross Section Pod Shape: 1 = Flat 2 = Heart (Pear) 3 = Round 4 = Figure Eight
(Middle of the Pod)



1 Crease Back: 1 = Present 2 = Absent

2 Pubescence: 1 = None (Slenderette) 2 = Sparse 3 = Considerable (Provider or Sprite)

2 Constriction (Interocular Cavitation): 1 = None 2 = Slight 3 = Deep

1 1 mm Spur Length

1 Fiber: 1 = None (Bush Blue Lake 290) 2 = Sparse 3 = Considerable (Sprite)

7 Number of Seeds per Pod

2 Suture String: 1 = Present 2 = Absent

2 Seed Development: 1 = Slow (Bush Blue Lake 290) 2 = Medium 3 = Fast (Provider)

1 Machine Harvest: 1 = Adapted 2 = Not Adapted

Percent sieve size distribution at optimum maturity for not-flat pods

4.76 to 5.76mm	5.76 to 7.34mm	7.34 to 8.34mm	8.34 to 9.53mm	9.53 to 10.72 mm	>10.72mm
	← 6.0 →	7.4 %	33.5 %	53.0 %	0 %
%	%	%			

3 Sieve	<input type="text"/>	cm Length	<input type="text"/>	mm width	<input type="text"/>	Total mm Thickness
4 Sieve	<input type="text"/>	cm Length	<input type="text"/>	mm width	<input type="text"/>	Total mm Thickness
5 Sieve	<input type="text"/>	cm Length	<input type="text"/>	mm width	<input type="text"/>	Total mm Thickness
6 Sieve	<input type="text"/>	cm Length	<input type="text"/>	mm width	<input type="text"/>	Total mm Thickness

per letter of
5/22/08
MAH
5/22/08

8. SEED COLOR:

3 Seed Coat Luster: 1 = Shiny 2 = Dull 3 = Semi-Shiny 4 = Variable

1 Seed Coat: 1 = Monochrome 2 = Polychrome

0 1 Primary Color: 1 = White 2 = Yellow 3 = Buff 4 = Tan 5 = Brown 6 = Pink 7 = Red 8 = Purple
9 = Blue 10 = Black 11 = Other

N A Secondary Color: 1 = White 2 = Yellow 3 = Buff 4 = Tan 5 = Brown 6 = Pink 7 = Red 8 = Purple
9 = Blue 10 = Black 11 = Other

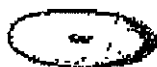
1 Seed Coat Pattern: 1 = Solid 1 = Splashed 3 = Mottled 4 = Striped 5 = Flecked 6 = Dotted

1 Hilum Ring: 1 = Absent 2 = Present

Hilum Ring Color: 1 = White 2 = Yellow 3 = Buff 4 = Tan 5 = Brown 6 = Pink 7 = Red 8 = Purple
9 = Blue 10 = Black 11 = Other

9. SEED SHAPE AND SIZE:

2 Hilum View:



1 = Elliptical



2 = Oval



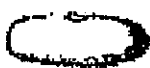
3 = Round

1 Cross Section: 1 = Elliptical 2 = Oval 3 = Cordate 4 = Round

9. SEED SHAPE AND SIZE: (continued)

1

Side View:



1 = Oval to Oblong



2 = Round



3 = Reniform

5 7

gm/100 Seeds

☐

gm/100 Seeds Lighter Than

☐

gm/100 Seeds Same As

☐

Comparison Variety

0 9

gm/100 Seeds Heavier Than

☐

10. DISEASE RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

1

Anthracnose (*Colletotrichum lindemuthianum*)
☐

Race Alpha

☐

Race Beta

☐

Race Gamma

☐

Race Delta

☐

Race Epsilon

☐

Race Lambda

☐

Race Kappa

☐

Specify Race _____

1

Bean Rust (*Uromyces appendiculatus*)
☐

Race 38

☐

Race 39

☐

Race 40

☐

Race 44

☐

Race 45

☐

Race 46

☐

Race 49

☐

Race 50

☐

Race 51

☐

Race 52

☐

Race 54

☐

Race 56

☐

Race 59

☐

Specify Race _____

0

Powdery Mildew (*Erysiphe polygoni*)

0

Fusarium Root Rot (*Fusarium solani* f. sp. *phaseoli*)

0

Pythium Root Rot (*Pythium* spp.)

1

Aphanomyces Root Rot (*Aphanomyces euteiches*)

0

Rhizoctonia Root Rot (*Rhizoctonia solani*)

0

Pythium Blight or Aerial Pythium (*Pythium ultimum*)

0

Angular Leaf Spot (*Isariopsis griseola*)

0

Bacterial Wilt (*Corynebacterium flaccumfaciens* subsp. *flaccumfaciens*)

1

Bacterial Brown Spot (*Pseudomonas syringae* pv. *syringae*)

0

Common Bacterial Blight (*Xanthomonas campestris* pv. *phaseoli*)

1

Halo Blight (*Pseudomonas syringae* pv. *phaseolicola*)
☐

Race 1

☐

Race 2

0

Clover Yellow Vein Virus (CYVV)

2

Bean Common Mosaic Virus (BCMV)

☐

BV1

☐

NY15

☐

NL2

☐

NL3

☐

NL4

☐

NL8

☐

Florida

☐

Idaho

☐

Mexican

☐

Western

☐

Type

☒

Other (Specify) "I" gene resistance

0

Yellow Bean Mosaic Virus (BYMV)

1

Curly Top Virus (CTV)

☐

Other (Specify Disease and Race or Strain _____)

11. INSECT RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

<input type="text" value="0"/> Aphid	<input type="text" value="0"/> Root Knot Nematode
<input type="text" value="0"/> Leafhopper	<input type="text" value="0"/> Seed Corn Maggot
<input type="text" value="0"/> Lygus	<input type="text" value="0"/> Thrips
<input type="text" value="0"/> Pod Borer	<input type="text" value="0"/> Weevils
<input type="text"/> Other (Specify) _____	

12. PHYSIOLOGICAL RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

<input type="text" value="0"/> Heat	<input type="text" value="0"/> Cold	<input type="text" value="0"/> Drought
<input type="text" value="0"/> Air Pollution	<input type="text" value="2"/> Ozone	
<input type="text"/> Other (Specify) _____		

13. COMMENTS:

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) Seminis Vegetable Seeds, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER EX 15330723	3. VARIETY NAME Veronica
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 2700 Camino del Sol Oxnard, California 93030	5. TELEPHONE (Include area code) (805) 647-1572	6. FAX (Include area code) (805) 918-2545
7. PVPO NUMBER		200700955

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

☒ YES☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

☒ YES☐ NO

10. Is the applicant the original owner?

☒ YES☐ NOIf no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES☐ NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES☐ NO

If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT F
DECLARATION REGARDING DEPOSIT**

NAME OF OWNER (S) Seminis Vegetable Seeds, Inc.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 2700 Camino del Sol Oxnard, California 93030	TEMPORARY OR EXPERIMENTAL DESIGNATION EX 15330723
NAME OF OWNER REPRESENTATIVE (S) Carol L. Miller	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 2700 Camino del Sol 37437 State Hwy 16 Oxnard, California 93030 Woodland, CA 95695	VARIETY NAME Veronica FOR OFFICIAL USE ONLY PVPO NUMBER 200700035

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Carol L. Miller
Signature

20-Nov-06
Date